

Appl. No. 10/604,590
Amdt. dated August 26, 2005
Reply to Office action of June 07, 2005

Amendments to the Claims:

1. (currently amended): A back light unit with high heat transfer rate disposed under a display panel, the back light unit comprising:
 - a light source generator for providing a light source;
 - 5 a diffusing plate interposed between the light source generator and the display panel for scattering the light source generated from the light source generator to the display panel; and
 - a reflecting sheet disposed under the light source generator for reflecting the light source upward to the diffusing plate, the reflecting sheet comprising at least one opening
 - 10 for improving a heat transfer rate of the back light unit; and
 - a housing disposed under the reflecting sheet and surrounding the reflecting sheet,
 - wherein the housing comprises a plurality of heat dissipating holes.
2. (original): The back light unit of the claim 1 wherein the opening is disposed directly
- 15 under the light source generator.
3. (original): The back light unit of the claim 1 wherein the opening on the reflecting sheet is a slot, a shape of the slot corresponding to a shape of the light source generator.
- 20 4. (original): The back light unit of the claim 1 wherein the light source generator comprises at least one light tube.
5. (original): The back light unit of the claim 4 wherein a width of the opening is less than half of a width of the light tube.
- 25 6. (original): The back light unit of the claim 4 wherein the light source generator comprises a plurality of light tubes arranged in parallel.

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7. (original): The back light unit of the claim 1 wherein the reflecting sheet comprises at least one uneven structure for increasing the reflection rate and heat transfer area of the reflecting sheet.

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8. (original): The back light unit of the claim 1 wherein the reflecting sheet comprises at least one V-shaped structure to increase the reflection rate and heat transfer area of the reflecting sheet.

10 9. (cancelled)

10. (original): The back light unit of the claim 1 wherein the housing comprises at least one uneven structure for increasing the heat transfer area of the back light unit.

15 11. (cancelled)

12. (currently amended): A back light unit with high heat transfer rate disposed under a display panel, the back light unit comprising:

a light source generator for providing a light source;

20 a diffusing plate disposed between the light source generator and the display panel for scattering the light source generated from the light source generator to the display panel; and

a reflecting sheet disposed under the light source generator to reflect the light source upward to the diffusing plate;

25 a housing disposed under the reflecting sheet and surrounding the reflecting sheet, wherein the housing comprises a plurality of heat dissipating holes for increasing the heat transfer rate of the back light unit; and

wherein the reflecting sheet comprises at least one uneven structure and a plurality of

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openings to increase heat dissipating efficiency of the reflecting sheet.

13. (original): The back light unit of the claim 12 wherein the openings on the reflecting sheet are disposed in the bottom of the uneven structure.

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14. (original): The back light unit of the claim 12 wherein the openings on the reflecting sheet are disposed in the top of the uneven structure.

15. (original): The back light unit of the claim 12 wherein the uneven structure is a V-shaped structure.

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16. (cancelled)

17. (currently amended): The back light unit of the claim ~~16~~ 12 wherein the housing comprises at least one uneven structure to increase the heat transfer area.

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18. (cancelled)

19. (original): The back light unit of the claim 12 wherein the light source generator comprises at least one light tube.

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20. (original): The back light unit of the claim 12 wherein the light source generator comprises a plurality of light tubes arranged in parallel.

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